

Barley Varieties for Montana, USA

Last updated: July 12, 2005

Montana farmers seeded 950,000 acres of barley in 2005, down from 1.0 million acres in 2004. Fifty percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the twelfth consecutive year.

MALTING VARIETIES

Harrington remains the top variety planted in the state for the twelfth year in a row. It was seeded on 268.7 thousand acres or 28.3 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

AC Metcalfe stays in second place this year, with 83.0 thousand acres planted, which accounts for 8.7 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spetoria.

B 1202 moves into third place this year, after being ranked fourth in 2004. It accounts for 47.7 thousand of the barley acres seeded this year, or 5.0 percent of the acreage. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

B Merit drops to the fourth most popular malting variety, with 43.4 thousand acres seeded, or 4.6 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2005 for use in Montana.

FORAGE VARIETIES

Haybet remains the most popular forage barley for the sixth year in a row, with 163.4 thousand acres seeded, which accounts for 17.2 percent of the total barley acres seeded in Montana for 2005. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

Westford is the second most popular forage barley for the third year in a row, with 20.1 thousand acres or 2.1 percent of the state barley acres seeded in 2005. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

FEED VARIETIES

Baronesse is the most popular feed barley again in 2005. It represents 3.7 percent of the total acreage or 35.3 thousand acres seeded in Montana for 2005. This is down from 39.3 thousand acres seeded last year and 44.7 thousand acres seeded in 2003. Developed in Germany, it is a two-rowed, rough-awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

Bowman is the second leading feed variety this year with 24.0 thousand acres or 2.5 percent of the barley acres seeded in 2005. This compares to the 14.4 thousand acres planted in 2004. Released in 1984 by the North Dakota Agriculture Experiment Station, Bowman is a non-malting two-row barley that has a high drought tolerance and high test weight.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and

the University of Idaho.

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Director

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Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2005

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.6	8.4	193.6	43.5	0.8	0.6	35.7	24.8	21.4	48.6	13.2	12.1	2.4	4.9	268.7	28.3
Haybet	1.7	8.9	20.5	4.6	62.2	44.4	32.5	22.6	7.3	16.6	12.6	11.6	26.6	54.3	163.4	17.2
AC Metcalfe*	0.0	0.0	73.4	16.5	2.0	1.4	6.0	4.2	0.6	1.4	0.9	0.8	0.1	0.2	83.0	8.7
B 1202 *	0.7	3.7	30.3	6.8	0.0	0.0	3.5	2.4	0.0	0.0	13.2	12.1	0.0	0.0	47.7	5.0
B Merit *	0.0	0.0	34.7	7.8	0.1	0.1	6.4	4.4	0.4	0.9	1.8	1.7	0.0	0.0	43.4	4.6
Moravian 37	0.0	0.0	9.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	25.4	23.3	1.3	2.7	36.5	3.9
Baronesse	5.0	26.3	11.1	2.5	1.0	0.7	10.2	7.1	3.8	8.6	2.3	2.1	1.9	3.9	35.3	3.7
Bowman	0.0	0.0	8.9	2.0	5.1	3.7	6.0	4.2	0.0	0.0	2.0	1.8	2.0	4.1	24.0	2.5
Westbred Xena	0.5	2.7	12.9	2.9	0.0	0.0	1.9	1.3	0.0	0.0	8.6	7.9	0.0	0.0	23.9	2.5
Hector	0.0	0.0	8.5	1.9	2.8	2.0	2.9	2.0	0.0	0.0	2.0	1.8	4.2	8.6	20.4	2.1
Westford	1.4	7.4	4.0	0.9	1.7	1.2	4.8	3.3	2.0	4.5	5.6	5.2	0.6	1.2	20.1	2.1
Gallatin	3.1	16.3	7.6	1.7	0.0	0.0	1.7	1.2	1.0	2.3	2.2	2.0	0.6	1.2	16.2	1.7
Tradition *	0.0	0.0	0.0	0.0	15.7	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	1.7
Valier	0.8	4.2	8.5	1.9	4.5	3.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	14.3	1.5
Legacy *	0.0	0.0	0.0	0.0	12.5	8.9	0.0	0.0	0.0	0.0	0.4	0.4	0.7	1.4	13.6	1.4
Conrad	0.1	0.5	10.4	2.3	0.0	0.0	2.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	13.1	1.4
Horsford	0.3	1.6	1.8	0.4	0.8	0.6	4.3	3.0	0.6	1.4	4.4	4.0	0.2	0.4	12.4	1.3
Lewis	0.0	0.0	0.9	0.2	3.3	2.4	4.3	3.0	0.0	0.0	0.0	0.0	0.1	0.2	8.6	0.9
Stark	0.0	0.0	0.0	0.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	7.6	0.8
Piroline	0.0	0.0	1.8	0.4	0.6	0.4	2.6	1.8	1.4	3.2	1.1	1.0	0.0	0.0	7.5	0.8
Hays	0.0	0.0	0.4	0.1	1.7	1.2	0.4	0.3	0.5	1.1	3.2	2.9	1.2	2.5	7.4	0.8
Conlon *	0.0	0.0	0.0	0.0	1.2	0.9	3.3	2.3	0.0	0.0	1.1	1.0	1.0	2.0	6.6	0.7
Haxby	0.5	2.6	1.3	0.3	2.1	1.5	1.1	0.8	0.2	0.5	0.4	0.4	0.6	1.2	6.2	0.7
Other & Unknown	3.3	17.4	4.6	1.1	14.9	10.6	13.3	9.2	4.8	10.9	8.6	7.9	4.9	10.0	54.4	5.7
All Varieties	19.0	100.0	445.0	100.0	140.0	100.0	144.0	100.0	44.0	100.0	109.0	100.0	49.0	100.0	950.0	100.0

*Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2005.

Barley: Percent of Total Seeded Acreage 1999-2005 & Seeded Acreage 2004-2005

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1999	2000	2001	2002	2003	2004 1/	2005	2004 1/	2005
Harrington *	49.6	49.9	45.7	47.6	47.1	39.8	28.3	398.3	268.7
Haybet	4.5	6.5	10.2	10.5	9.9	10.4	17.2	103.6	163.4
AC Metcalfe *	--	--	--	--	0.7	4.9	8.7	48.7	83.0
B 1202 *	5.2	5.4	5.6	5.6	4.9	3.9	5.0	38.5	47.7
B Merit *	1.2	1.6	1.1	2.6	3.8	4.3	4.6	43.4	43.4
Moravian 37	0.1	1.5	3.8	4.3	3.9	3.0	3.9	30.3	36.5
Baronesse	7.6	6.2	5.0	3.9	4.1	3.9	3.7	39.3	35.3
Bowman	2.7	2.8	2.1	3.0	2.1	1.4	2.5	14.4	24.0
Westbred Xena	--	--	--	--	0.9	0.9	2.5	8.5	23.9
Hector	4.9	3.7	2.7	3.1	1.8	2.5	2.1	24.7	20.4
Westford	0.1	1.2	2.7	3.2	2.3	2.4	2.1	23.7	20.1
Gallatin	4.0	2.2	3.3	1.9	2.9	3.5	1.7	34.6	16.2
Tradition *	--	--	--	--	--	--	1.7	--	15.7
Valier	--	0.1	0.6	1.1	0.9	2.3	1.5	23.4	14.3
Legacy *	--	--	--	0.6	1.0	2.8	1.4	28.0	13.6

Conrad	--	--	--	--	--	--	1.4	--	13.1
Horsford	1.7	2.4	1.3	1.6	1.7	1.2	1.3	12.2	12.4
Lewis	2.3	1.5	1.5	1.6	1.6	1.9	0.9	19.1	8.6
Stark	1.9	0.9	0.8	1.1	1.0	0.9	0.8	9.4	7.6
Piroline	1.9	1.1	1.2	1.2	1.3	0.9	0.8	9.1	7.5
Hays	--	--	--	--	--	--	0.8	--	7.4
Conlon *	--	--	--	--	--	0.9	0.7	7.8	6.6
Haxby	--	--	--	--	--	--	0.7	--	6.2
Other & Unknown	12.3	13.0	12.4	7.1	8.1	8.2	5.7	83.0	54.4
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,000.0	950.0
1/ Revised. *Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2005.									

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2004 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.0	10.9	291.0	57.5	14.1	11.4	52.8	30.0	17.5	42.6	18.9	23.1	2.0	3.8	398.3	39.8
Haybet	1.9	10.5	18.2	3.6	33.9	27.3	10.9	6.2	1.9	4.6	9.9	12.1	26.9	50.7	103.6	10.4
ACMetcalfe	0.0	0.0	41.0	8.1	0.0	0.0	7.0	4.0	0.7	1.7	0.0	0.0	0.0	0.0	48.7	4.9
BMerit*	0.0	0.0	38.0	7.5	0.2	0.2	3.2	1.8	1.3	3.1	0.7	0.9	0.0	0.0	43.4	4.3
Baronesse	3.8	20.9	9.6	1.9	0.7	0.6	17.1	9.7	6.9	16.9	0.8	1.0	0.4	0.7	39.3	3.9
B1202*	0.0	0.0	25.7	4.9	2.9	2.3	3.2	1.8	0.0	0.0	6.7	8.2	0.0	0.0	38.5	3.9
Gallatin	1.5	8.2	7.6	1.5	0.4	0.3	17.8	10.1	3.4	8.3	3.8	4.6	0.1	0.2	34.6	3.5
Moravian37	0.0	0.0	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	23.9	0.6	1.1	30.3	3.0
Legacy*	0.0	0.0	19.2	3.8	7.8	6.3	0.4	0.2	0.0	0.0	0.0	0.0	0.6	1.1	28.0	2.8
Hector	0.3	1.8	4.6	0.9	7.2	5.8	8.1	4.6	0.0	0.0	2.8	3.4	1.7	3.3	24.7	2.5
Westford	0.5	2.7	3.0	0.6	2.4	1.9	10.0	5.7	3.7	9.1	3.4	4.2	0.7	1.3	23.7	2.4
Valier	3.7	20.5	9.6	1.9	3.5	2.8	5.5	3.1	0.1	0.3	0.0	0.0	1.0	1.8	23.4	2.3
Lewis	0.0	0.0	1.5	0.3	9.3	7.5	4.9	2.8	0.0	0.0	1.3	1.6	2.1	4.0	19.1	1.9
Bowman	0.0	0.0	4.0	0.8	4.1	3.3	2.1	1.2	0.0	0.0	0.5	0.6	3.7	6.9	14.4	1.4
Horsford	0.8	4.5	0.5	0.1	0.9	0.7	4.4	2.5	0.8	2.0	2.9	3.5	1.9	3.6	12.2	1.2
Robust*	0.0	0.0	0.0	0.0	9.5	7.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	10.0	1.0
Stark	0.0	0.0	0.0	0.0	6.2	5.0	3.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.9
Piroline	0.0	0.0	3.5	0.7	0.0	0.0	4.9	2.8	0.0	0.0	0.7	0.9	0.0	0.0	9.1	0.9
WestbredXena	0.1	0.5	4.6	0.9	0.0	0.0	3.7	2.1	0.0	0.0	0.1	0.1	0.0	0.0	8.5	0.9
Conlon*	0.0	0.0	0.0	0.0	1.1	0.9	3.2	1.8	0.0	0.0	0.0	0.0	4.2	8.0	8.5	0.9
Other&Unknown	3.4	19.5	14.3	3.0	19.8	16.0	13.1	7.5	4.7	11.4	9.9	11.9	7.1	13.5	72.3	7.2
AllVarieties	18.0	100.0	506.0	100.0	124.0	100.0	176.0	100.0	41.0	100.0	82.0	100.0	53.0	100.0	1,000.0	100.0
1/ Revised. *Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.																

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